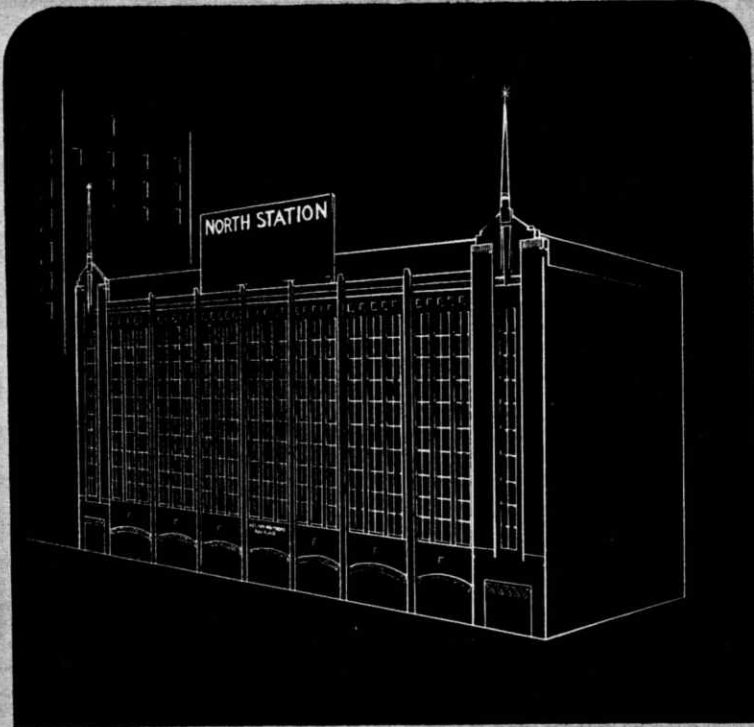


A.R.

BOSTON & MAINE RAILROAD  
HISTORICAL SOCIETY  
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~~REPRODUCTION~~



117th

# *Annual Report*

YEAR ENDING DECEMBER 31, 1949



BOSTON and MAINE RAILROAD

.M3118 BM 1949

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**CONDENSED  
INCOME ACCOUNT  
FOR 1949**

**INCOME**

	1949	Increase or Decrease from 1948	Per Cent
Operating Revenues.....	\$82,238,980 86	d \$11,926,947 26	12.67
Operating Expenses.....	67,091,572 50	d 6,650,776 72	9.02
Net Revenue from Operations.....	\$15,147,408 36	d \$ 5,276,170 54	25.83
Railway Tax Accruals.....	6,481,145 68	d 1,256,211 43	16.24
Railway Operating Income.....	\$ 8,666,262 68	d \$ 4,019,959 11	31.69
Equipment and Joint Facility Rents — Net Dr.....	3,682,703 06	d 732,760 03	16.60
Net Railway Operating Income.....	\$ 4,983,559 62	d \$ 3,287,199 08	39.74
Other Income.....	980,546 99	12,054 02	1.24
<i>Total Income</i> .....	<i>\$ 5,964,106 61</i>	<i>d \$ 3,275,145 06</i>	<i>35.45</i>

**DEDUCTIONS**

Rental Payments — Fixed.....	\$ 689,612 43	\$ 3,226 90	47
Interest on Debt — Fixed.....	2,674,643 77	d 35,534 57	1.31
Interest on Unfunded Debt.....	14,227 42	d 13,845 78	49.32
Other Deductions.....	142,663 78	8,080 20	6.00
<i>Total Deductions</i> .....	<i>\$ 3,521,147 40</i>	<i>d \$ 38,073 25</i>	<i>1.07</i>
Income After Fixed Charges.....	\$ 2,442,959 21	d \$ 3,237,071 81	56.99

d Indicates decrease.

**Income after Fixed Charges (Available Net Income)**

has been allocated in accordance with Mortgage

Indentures to the following purposes:

Sinking Fund for Redemption of Series RR Bonds..	\$ 679,102 00
Interest on Income Bonds Series A:	
Accrued for period, Jan. 1 to Dec. 31, 1949 at 4½%	1,121,859 86
Sinking Fund for Redemption of Series A Bonds...	482,870 00
<b>Total Mortgage Allocations.....</b>	<b>\$ 2,283,831 86</b>
Net Income transferred to Profit and Loss....	159,127 35
	<b>\$ 2,442,959 21</b>



**BOSTON & MAINE RAILROAD  
HISTORICAL SOCIETY  
ARCHIVES**

*TO THE OWNERS OF  
THE BOSTON AND MAINE RAILROAD:*

The results of the operations of your company for the year 1949 show operating revenues of \$82,238,980.86 and operating expenses of \$67,091,572.50. Revenues were 12.7% below those of 1948 and operating expenses were reduced by 9.0% from the 1948 figures.

Income after fixed charges amounted to \$2,442,959.21 and after providing for contingent interest of \$1,121,859.86 and for sinking funds \$1,161,972.00 there was left a net of \$159,127.35.

**STATUS OF CAPITAL STOCK REORGANIZATION**

The number of shares of capital stock of all classes outstanding December 31, 1949, including fully paid negotiable receipts for subscriptions to prior preference stock, was unchanged at 1,046,113 of a par value of \$104,611,300.

The Plan for the modification of your company's capital stock structure which was approved by the Board of Directors on December 28, 1948, was the subject of a 5-day hearing in Boston before an Examiner of the Interstate Commerce Commission in March 1949. A number of representatives of shareholders were heard in favor of the Plan, as well as several, mostly representing holders of First Preferred stock, who appeared in opposition. On August 17, 1949 the Examiner submitted a report recommending to the Interstate Commerce Commission approval of the Plan as submitted by your Board of Directors. Argument on the Examiner's Report was held before the Commission on October 24, 1949, and the Commission at the end of the year had the case under advisement. It is expected that a final report in the matter will be rendered in the early part of 1950.

## CHANGES IN LONG-TERM DEBT

Long-Term Debt outstanding in hands of Public on December 31, 1949 amounted to \$94,069,002.70 (see note), a decrease of \$2,670,089.99 since December 31, 1948.

### DECREASE IN LONG-TERM DEBT

Funded Debt reacquired:			
Series RR 1st Mtge. 4% Bonds due 7/1/60 . . . . .	\$1,309,800.00		
Series A Income Mtge. 4½% Bonds due 7/1/70 . . . . .	1,272,500.00		
	<u>\$2,582,300.00</u>		
Assumption of liability of Vermont Valley Railroad 1st Mtge. 4% Bonds due 10/1/55 in connection with acquisition of property of Vermont Valley Railroad Dec. 31, 1949 . . . . .	\$ 290,000.00		
Decrease Funded Debt in hands of Public		\$2,292,300.00	
Decrease in Equipment Obligations account installment payments during the year . . . . .	\$3,214,707.99		
Increase in amount of Equipment Obligations account new equipment received during the year . . . . .	2,836,918.00	\$ 377,789.99	
Net Decrease in Long-Term Debt in Hands of Public . . . . .			<u>\$2,670,089.99</u>

NOTE—Long-Term Debt of \$94,069,002.70 is outstanding after deducting \$5,850,000.00 Bonds owned by the Railroad, of which \$661,000.00 is pledged with Old Colony Trust Company, Trustee, in lieu of Mortgaged Property Sold.

During the 10-year period ending December 31, 1949, outstanding funded debt, other than equipment obligations, was reduced by \$40,131,730. In addition, funded debt of leased lines, and obligations guaranteed by your company, were reduced by \$5,196,000, bringing the total system debt reduction since December 31, 1939, to \$45,327,730. The only leased line obligation presently outstanding consists of \$290,000 of Vermont Valley Railroad 4% bonds of an original issue of \$1,500,000.

Outstanding equipment obligations during the same period increased \$3,842,908.

Computed on an annual basis, total interest charges on debt outstanding December 31, 1949, including equipment obligations, were \$2,273,276 less than in the year ended December 31, 1939, a reduction of approximately 37.8%.

## TAXES

Your company's total tax bill for 1949 showed a reduction of \$1,254,336.43 or 16.2% under 1948 as indicated in the tabulation below:

	1949	1948	Decrease	Percent Decrease
State and Municipal Taxes . . . . .	\$2,833,366.71	\$2,951,151.44	\$ 117,784.73	3.99
Federal Taxes				
Railroad Retirement (Employees' Pensions) . . . . .	2,547,100.88	2,647,682.64	100,581.76	3.80
Railroad Unemployment Insurance . . . . .	212,484.05	225,633.57	13,149.52	5.88
Income Taxes . . . . .	862,971.92	1,884,385.58	\$1,021,413.66	54.20
Other Taxes (Excise Taxes, etc.) . . . . .	38,122.12	39,528.88	1,406.76	3.56
Total . . . . .	<u>\$6,494,045.68</u>	<u>\$7,748,382.11</u>	<u>\$1,254,336.43</u>	<u>16.19</u>
Taxes Per Share of Stock . . . . .	\$6.20	\$7.40		

The decrease in income tax was due to less taxable income earned. Railroad Retirement tax rates increased from 5¾% to 6%, effective January 1, 1949, while Railroad Unemployment Insurance tax rates remained unchanged at ½ of 1%. Though there was a substantial total payroll reduction during the year the additional ¼ of 1% increase in the Retirement tax as well as higher individual wages per employee offset to some extent the decrease that otherwise would have resulted from the payroll reduction.

Though real estate tax rates generally were higher in 1949, the sale of substantial parts of your company's waterfront properties to the Commonwealth of Massachusetts, and in several instances the lowering of assessments, resulted in a reduction in this item from the 1948 figure.

In addition to the taxes assessed directly against your company, acting as an unpaid collection agency it collected from others for the Federal Government in 1949 a total of \$10,038,270.41 in Excise, Withholding, and Retirement taxes.

The transportation excise taxes on freight and passenger traffic were levied not only as a war emergency measure for raising additional government revenue, but also as a deterrent to unnecessary shipments of goods and unnecessary traveling during the war. Their repeal now would have a stimulating effect on railroad earnings and it is hoped that Congress will enact the necessary repeal legislation during the current session.

## RETURN ON INVESTMENT

The decrease in gross revenue referred to elsewhere in this report was only partly offset by reduced operating expenses. This resulted in a net railway operating income in 1949 of \$4,983,559 representing a return of only 2.0% on the \$254,040,311 invested in transportation property, 1.3% lower than in the previous year, as shown below:

	1949	1948	% Change to 1949	1939	% Change to 1949
Gross Revenue . . . . .	\$ 82,238,981	\$ 94,165,928	12.67	\$ 46,341,082	77.46
Operating Expenses . . . . .	67,091,573	73,742,349	9.02	33,133,913	102.49
<i>Net Revenue</i> . . . . .	15,147,408	20,423,579	25.83	13,207,169	14.69
Railway tax Accruals . . . . .	6,481,146	7,737,357	16.24	3,519,723	84.14
Equipment Rents . . . . .	3,327,696	3,998,851	16.78	2,548,171	30.59
Joint Facility Rents . . . . .	355,007	416,612	14.79	184,133	92.80
Deduction from Net Revenue . . . . .	10,163,849	12,152,820	16.37	6,252,027	62.57
Net Railway Operating Income (A) . . . . .	\$ 4,983,559	\$ 8,270,759	39.74	\$ 6,955,142	28.35
Investment in Transportation Property including Cash, Material and Supplies, less Recorded Depreciation and Amortization (B) . . . . .	1949 \$254,040,311	1948 \$254,333,614		1939 \$253,336,974	
Rate of Return = A ÷ B . . . . .	2.0%	3.3%		2.7%	

The exact meaning of "return on investment" deserves re-emphasis. It is not the same thing as net profit, but is merely the ratio that net railway operating income bears to investment in transportation property.

Net railway operating income is what remains from gross revenues after taking out operating expenses, taxes and rents but before deducting fixed and contingent charges including interest on the company's bonds and other debts as well as provisions for sinking funds.

In other regulated public utilities a return of 6% on investment is considered reasonable. If railroads are to restore their credit with investors by paying an adequate return to the owners of the property, and if they are to continue to modernize and increase the efficiency of their operations, regulatory policies must permit the earning of a rate of return on investment at least equal to that enjoyed by other utilities.

## FREIGHT TRAFFIC

Freight revenue for the year was \$61,721,865.97, or 12.9% less than that of 1948, which was the highest freight revenue in the company's history.

Revenue ton miles totaled 3,037,496,906 or 17.0% below 1948. Average revenue per ton mile was 2¢ or 4.9% above 1948. The reduction in freight revenue as well as in revenue ton miles was due to the general decline in industrial activity during the year. This condition was intensified by protracted strikes in the coal and steel industries and by a policy of reduced inventories on the part of many manufacturers.

The increase in average revenue per ton mile was principally due to the higher freight rate level which prevailed throughout the year. The railroads were authorized by the Interstate Commerce Commission to make an interim increase in freight rates effective January 11, 1949 in the form of an emergency charge, which in general increased freight rates 6% in the Northeast and between the Northeast and South, and 5% between the Northeast and West. Effective September 1, 1949, the Commission authorized the carriers to make this a permanent increase of 10% with certain exceptions, and maximum increases on some commodities.

In an endeavor to keep abreast of the almost constant increases in the cost of labor and material, the railroads have been obliged to seek permission from the Interstate Commerce Commission to increase freight



Boston and Maine Railroad pioneers among U. S. Railroads in using conveyor system in handling L.C.L. freight.

rates. In the cases of the last two increases, the decisions have been made a considerable time after the increases were asked for, with the result that freight rates have been increased at a time when both prices and general business activities were on the decline. This has increased the use of highway transportation, particularly contract and privately-owned trucks. There are no applications now pending before the Commission for further freight rate increases, and your company is now actively re-aligning its rates to improve its competitive position.

For some years it has been the general practice of railroads to give free pick-up-and-delivery service on less-than-carload freight. This work has been performed under contract, the cost of which has been very high during recent years, to the extent that the expense has become extremely burdensome. Effective November 5, 1949, your company and many other Eastern railroads discontinued the free pick-up-and-delivery service, and a charge is now assessed based substantially on the amounts paid to local truckmen for performing this service. On a volume of less-than-carload freight traffic equivalent to that of 1949 it is estimated that this should mean a reduction in expenses of approximately \$600,000 per year for your company.

### PASSENGER TRAFFIC

Passenger revenue for the year was \$13,033,032.83, a decline of 12.3% from 1948. The number of passengers handled declined to 20,913,729 in 1949, as compared with 23,674,066 in 1948, a reduction of 11.7%. Passenger miles, an index of volume, declined 15.9%.

Commutation traffic for the year showed a total of 12,138,217 passengers, a decline of 3.4% in the number carried as against a decline of 21.0% in all other passengers carried. Part of the decline was due to a general lowering of industrial activity and part to curtailment of passenger trains in the elimination of unprofitable services.

During the year the eastern railroads petitioned for a general increase in passenger fares other than those applying to commutation travel and as a result of this they were authorized to increase the level of coach fares from 3¢ to 3.375¢ per mile and the first-class fares applicable in parlor and sleeping cars from 4¢ to 4.5¢ per mile. The increases generally were made effective December 1, 1949, but your company, together with other New England lines felt that to take full advantage of the increases would result in reduced rather than increased revenue.

Consequently, the one-way coach fares were increased as authorized, but a 30-day round-trip fare was provided on the old level and a one-day round-trip fare was made available at a lower rate than that previously in effect. Your company increased sleeping car fares as authorized, but made no increase in fares applicable to travel in parlor cars.

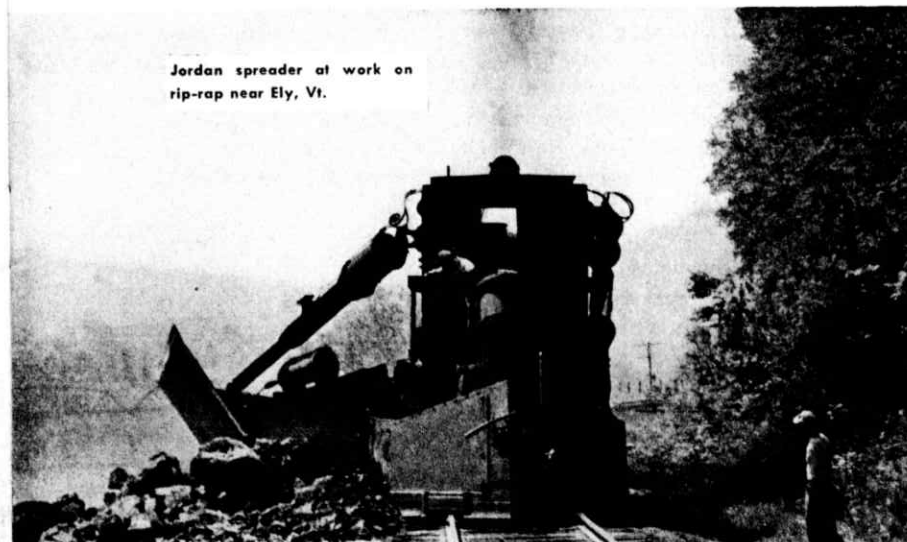
This fare adjustment has received much favorable comment, both in our territory and elsewhere, and it is felt that by providing these special round-trip fares the maximum revenue possible will be obtained.

### EXPRESS TRAFFIC

The revenue from Express was \$653,052.68, a reduction of 44.6%. This resulted from a drop in the number of shipments handled, the general decline in business activity, competition of other forms of transportation, and the greater weights and sizes of packages now permitted in parcel post service. The Express Agency has had substantial increases in operating costs and the resultant decline in its net left a smaller amount available for payment to the participating rail carriers.

### MILK TRAFFIC

Revenue from the transportation of milk and cream in 1949 was \$1,361,966.42, a decrease of 3.4% as compared with 1948. There were no changes in rates on this commodity during the year and the decrease in revenue was due to a smaller volume transported as a result of a drop in consumption.



Jordan spreader at work on rip-rap near Ely, Vt.

## PER DIEM DEVELOPMENTS IN 1949

It was stated in the Annual Report for 1948 that the case involving the proper per diem rate, the charge for rental of freight cars owned by other roads, had been submitted to the Interstate Commerce Commission for decision. On the one hand, certain railroads, including your company, attacked the rate then in effect of \$1.50 per car per day as being too high. On the other hand, certain other roads attacked the same rate as being too low.

On July 11, 1949 the Commission held that the \$1.50 rate was neither unreasonably high nor unreasonably low and dismissed both complaints. This action did not fix the rate for the future and subsequently, by vote of the roads owning a substantial majority of all freight cars, the rate was increased to \$1.75 per car per day effective November 1, 1949. Your company will continue its efforts to have this rate reduced. Since the Boston and Maine is a debit road, paying out considerably more in per diem charges to other roads than is collected from those roads for B. & M. cars when they are off line, the problem is an important one.

## GOVERNMENT REPARATIONS SUITS

In the Annual Report for 1948, it was reported that the Department of Justice had filed complaints with the Interstate Commerce Commission seeking reparations for allegedly high rates charged the Government by the railroads during the war. Hearings on certain of the cases were held during 1949, and it is expected that additional complaints will be heard during 1950.

The railroads are prepared to prove that the Government enjoyed generally lower rates than commercial shippers during the War and that in contrast to a daily cost to the taxpayers of \$2,000,000 for government operations of the railroads during World War I, the railroads paid the equivalent of Two and a Half Million dollars per day in taxes to the Government during World War II, and that the return on investment to the industry between 1940 and 1945 averaged only 4.45%.

Although the reparations claims still have almost no support in public opinion, the Department of Justice continues to press them vigorously. If successful, the suits will result in very serious financial injury to the railroads.

## RAILWAY MAIL PAY

In the early part of 1947 most of the railroads, including your company, petitioned the Interstate Commerce Commission for a 45% increase in the compensation received for carrying United States Mail. Subsequent amendments to the petition have raised the increase requested to 95% over the basis existing on January 1, 1947, a basis which had been unchanged for nearly 20 years.

Although the railroads receive only about two-thirds as much pay for carrying 94% of the first class mail as the airlines receive for carrying the remaining 6%, the Post Office Department has strenuously opposed any increase and has succeeded in delaying proceedings before the Commission to such an extent that although nearly three years have elapsed since the filing of the petition, a full hearing on the merits has not yet been completed.

When it became evident the delays would be serious the petitioning railroads requested an interim increase of 35%. On December 4, 1947, the Commission granted such an increase in the amount of 25%.

The petitioning roads have now requested a second interim increase of an additional 35% and it is expected that this will be acted upon by the Commission in the early part of 1950. Final decision in the proceedings appears to be at least a year away, and possibly longer, but if a favorable decision is rendered the increased rates will be retroactive to the dates of the petitions under which they were requested.

## INDUSTRIAL DEVELOPMENT

Approximately \$14,000,000 was invested in thirty-four new or expanded plants in Boston and Maine territory during the year. Twenty-two new private sidings with a total length of 8760 feet of trackage were constructed and 650,000 square feet of Railroad-owned land was sold for industrial purposes.

Many concerns which deferred industrial development activities in 1949 are expected to proceed with their plans in 1950.

## ACQUISITIONS AND ABANDONMENTS

Pursuant to the vote of the stockholders at the 1949 Annual Meeting appropriate steps were taken to acquire the property and franchises of the Vermont Valley Railroad and the Sullivan County Railroad, and acquisitions were completed as of December 31, 1949. In this connection your company has substituted a direct for an indirect obligation for the payment of the principal of and interest on \$290,000 in principal amount of First Mortgage 4% sinking fund bonds of the Vermont Valley Railroad, due October 1, 1955. Under a trackage agreement between the Vermont Valley Railroad and the Boston and Maine Railroad, your company was already obligated to make interest and sinking fund payments on those bonds, and consummation of this transaction in no way changed the essentials of the financial situation as it existed previously. Corporate simplification, however, was achieved.

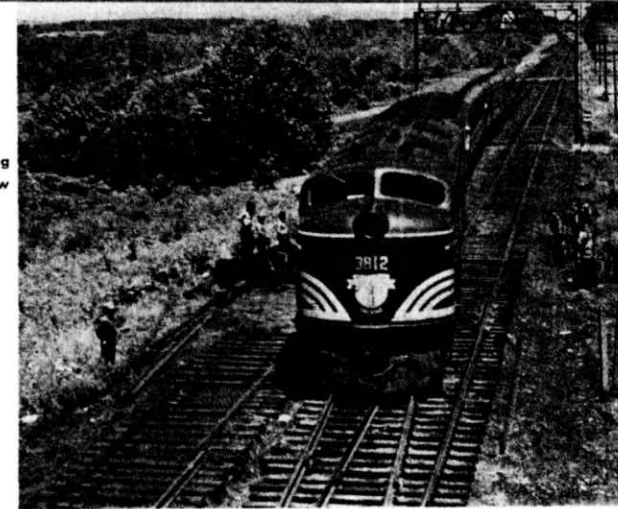
As reported in the Annual Report to Stockholders for 1948, petition was made to the Massachusetts Department of Public Utilities for permission to abandon passenger service on the Saugus Branch. Despite evidence that the out-of-pocket costs of such service were two and a half times the revenue received therefrom, and despite showing that alternative means of public transportation were available, the Department of Public Utilities denied the petition on the ground that there was a substantial public demand for the service.

Through the year extensive studies of your company's operations revealed that a number of station agencies could be discontinued with considerable saving of expense, but without prospect of any considerable traffic losses. Studies have also shown that a number of branch line passenger trains were being operated at out-of-pocket costs in excess of revenues derived from the operation of the trains, constituting drains on system income.

A number of such discontinuances were accomplished during 1949, and a number of petitions for further discontinuances, both of agencies and of trains, were presented to and heard but not decided by the Public Service Commission of New Hampshire during the year. At the year's end further studies were being made and further petitions were in the course of preparation.

At the Annual Meeting of Stockholders held on April 13, 1949, authorization was given to sell approximately 45 miles of single track railroad between Rochester, N. H., and Westbrook, Me., to a newly formed company operating under the name of the Sanford and Eastern

Train 55 making first crossing to eastward track at new Johnsonville West turnout.



Railroad. The sale was consummated and on July 1, 1949 the new owners took possession of the property. Cost studies had shown that the line had been operated at a deficit for years as part of a Class I Railroad. Operation by the Sanford and Eastern, a privately owned company, enables the industries located on the line to continue to have adequate service and the traffic which previously moved over your company's lines will continue so to move.

## OPERATING RESULTS

Gross ton miles for the year 1949 were 12.5% less than 1948. This was primarily due to the lighter potato movement during the last quarter and the interruptions, because of labor disputes, in production in the coal mines and the steel mills. In spite of this, however, the average gross train load increased by 1.2% and the average freight train speed increased 3.9%, resulting in a gain in gross ton miles produced per train hour of 5.6% as compared with the previous year.

The proportion of gross ton miles handled by Diesel locomotives at the end of 1949 was 93.5% as compared with 87.3% at the end of 1948. This increase is important since the unit cost of coal in 1949 was up 6.2% over the previous year, while the price of Diesel fuel oil decreased 11.0%.

Of the passenger train miles 54.4% were operated with Diesels in 1949 as compared with 40.5% in 1948. Most of the through trains are now Diesel operated and to some extent short runs are also operated by Diesel during the summer when train heat is not required, permitting the use of available spare freight Diesels for such service.

## CHANGES IN EQUIPMENT

Steam locomotive ownership at the end of the year was 265. During 1949 thirty-five steam locomotives were retired.

Diesel locomotive ownership, totaling 141 units at the end of the year, is as follows:

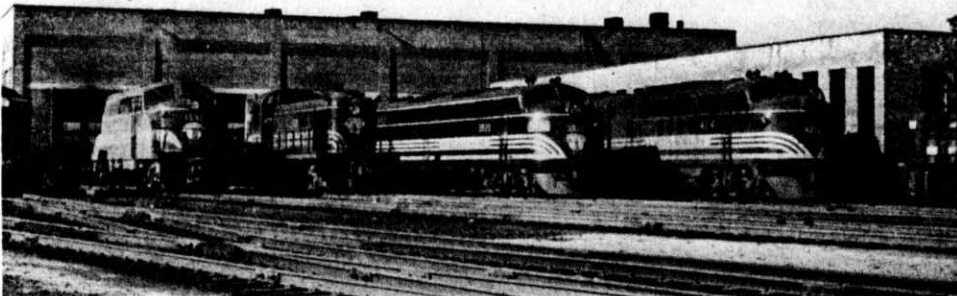
	Owned 1/1/49	Added in 1949
Road Passenger — 2000 H.P.. . . . .	20	1
Road Freight — 3000 H.P.. . . . .	2	—
“ “ — 2700 H.P.. . . . .	27	—
“ “ — 1500 H.P.. . . . .	5	13
“ “ — 1350 H.P.. . . . .	15	—
Switcher — 1000 H.P.. . . . .	14	6
“ — 660 H.P.. . . . .	6	5
“ — 600 H.P.. . . . .	17	1
“ — 380 H.P.. . . . .	10	—
	116	26*

\* During the year, one 1350 H.P. Diesel unit was retired.

One 2250 H.P. passenger locomotive was ordered for 1950 delivery.

Revenue freight car ownership at the end of 1949 was 5,443. During the year 293 cars were retired because of age and condition, 6 were destroyed by accident on foreign lines, 11 were sold, and 81 converted to non-revenue service.

Left to right, 1000 H.P. Diesel Switcher; 1500 H.P. Branch Line Diesel; 1500 H.P. Road Switcher; 2000 H.P. Passenger Diesel; 2700 H.P. Freight Diesel at Boston Diesel Terminal.



The application of A.B. brakes which was ordered by the Interstate Commerce Commission for completion before January 1, 1950 has been extended to January 1, 1951. On December 31, 1949, 99.5% of your company's interchange freight cars had been equipped.

Passenger car ownership at the end of the year was 1126. During the year 64 cars were withdrawn from service, most of them old steel underframe cars. Of these withdrawals 29 were scrapped, 27 were converted to non-revenue service, 7 were sold, and 1 was destroyed by accident on a foreign line. During the year 10 Pullman tourist cars were purchased from the War Assets Administration plus 2 combination cars from the Chesapeake and Ohio Railroad, all of which are to be converted to baggage cars.

Ownership of non-revenue equipment on December 31, 1948 was 939 cars. During the year 108 cars were converted from revenue equipment.

One gas crane and 3 small plows were purchased, 72 non-revenue cars were scrapped and 4 were sold.

## WAGES AND WORKING RULES

The year 1949 was marked by considerable activity on the part of both operating and non-operating unions seeking higher wages, shorter hours and changes in working rules.

On March 19 a national agreement was signed giving non-operating employees an increase of 7¢ per hour, retroactive to October 1, 1948, and providing for a 40-hour week which became effective September 1, 1949.

On April 11 an Emergency Board recommended rejection of the demand of the Brotherhood of Locomotive Engineers for a second engineer on Diesel locomotives. No further action has been taken in this matter. A demand of the Brotherhood of Locomotive Firemen and Enginemen for a second fireman on Diesels was also referred to an Emergency Board, which on September 19 recommended rejection of the demand. The Brotherhood declined to accept the recommendation of the Board and strike ballots are now before the men on a national basis.

At the end of the year there were also pending demands of the conductors and trainmen and of locomotive firemen for a 40-hour week for men in yard service, as well as changes in the rules applicable to road service. On December 15 the conductors and trainmen, following the customary practice when negotiations deadlock, sent out strike ballots nationally to enforce their demands. The engineers have served similar demands which are now pending.



## ADDITIONS AND IMPROVEMENTS TO PROPERTY

Approximately 2900 tons of new 115-pound rail were laid during the year in 11.9 track miles in both tracks of the New Hampshire Division main line between Winter Hill and Winchester, Massachusetts, and in 1 track mile in the eastbound track of the Fitchburg Division main line near Greenfield, Massachusetts, with the balance used in renewal of 26 main line connections between Ayer and Greenfield. A total of 65 track miles of existing stone ballast was resurfaced, consisting of 38 miles on the Portland Division main line between Kennebunk and Rigby Yard, Maine, 15 miles at various locations on the Fitchburg Division main line, and 12 miles on the New Hampshire Division between Winter Hill and Winchester. A rail detector car, operated for the purpose of revealing internal rail defects, tested 1356 track miles of main lines and important branches. Double track was converted into single track over approximately 13 miles of the Troy Branch, between Troy and Johnsonville, New York, and for approximately 7 miles on the Fitchburg Division main line between Crescent and Scotia, New York. Modern centralized traffic control signal systems were installed in connection with both of these projects.

The construction of the new dam on the Connecticut River at Wilder, Vermont by the New England Power Company required extensive roadway changes in the main line between White River Junction and Wells River, Vermont. Track raising, culvert changes, and placement of over 5000 carloads of rip-rap for embankment protection were

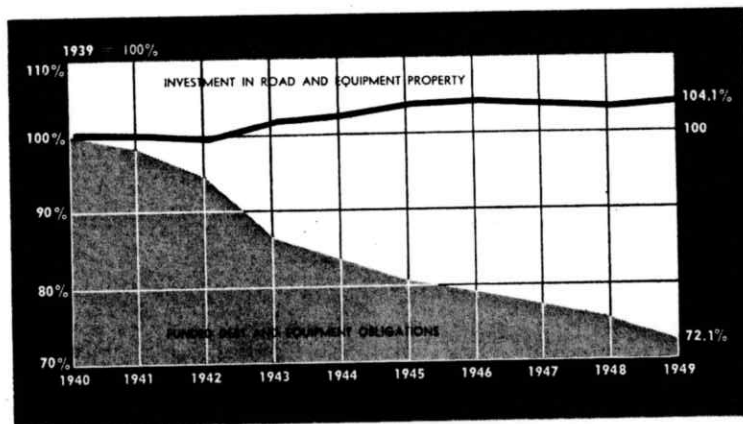
made necessary by this project. The work is approximately 75% completed, and its cost is collectible from the Power Company.

This year 4 grade crossings were eliminated by closing and 6 were eliminated by the construction of new overhead bridges. 45 grade crossings were eliminated by the sale of the line from Rochester, New Hampshire, to Westbrook, Maine to the Sanford and Eastern Railroad. 17 additional installations of automatic flashers and half gates were made, resulting in substantial savings over previous types of protection. Automatic flashers and bells were installed in 21 crossings, also with resultant savings over previous types of protection.

The passenger station facilities at Portsmouth, New Hampshire were modernized and rebuilt, resulting in one attractive station building, including a new restaurant, in place of three older buildings on the site. Improvement in parking facilities and general access to the station was made.

Many projects have been completed throughout the system with the object of modernizing and making more efficient facilities for handling traffic, including replacement of overhead power lines with underground cable in the Boston Terminal, improvement in yard lighting, with flood lights at Concord, New Hampshire and the west end of the eastbound yard at Mechanicville, New York and in addition, improvements in facilities were made at Billerica and Concord shops, as well as the Mechanicville and Somerville Diesel shops.

Policy of mechanizing all maintenance work possible continues as a part of constant improvement in plant and facilities.



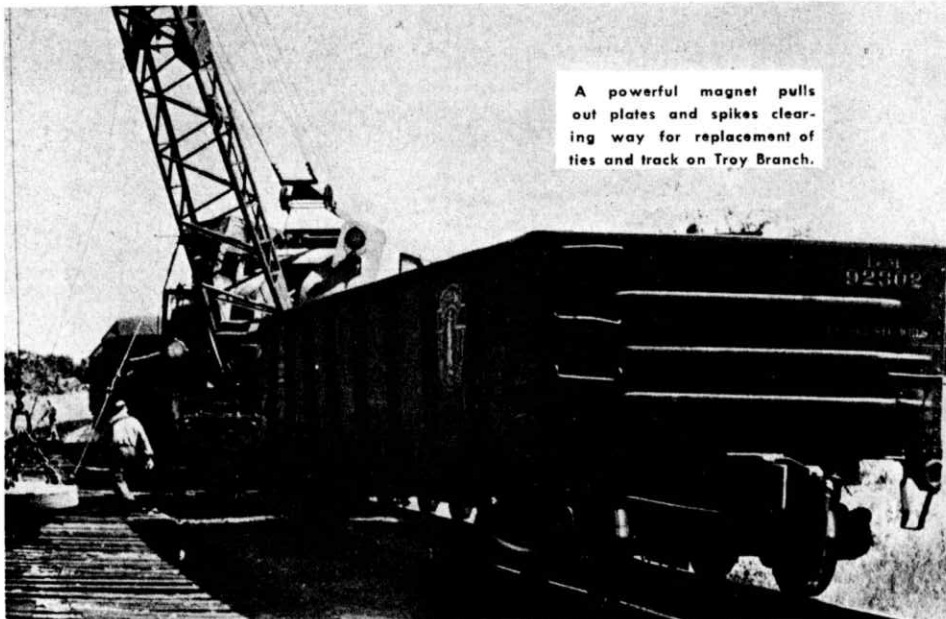
During the period of 10 years, net investment in "Road and Equipment Property" increased \$10,124,042 (from \$247,553,706 to \$257,677,748) and "Funded Debt and Equipment Obligations, in Hands of the Public" decreased \$36,288,822 (from \$130,067,825 to \$93,779,003). Funded Debt decreased \$40,131,730 and Equipment Obligations increased \$3,842,908.

## MATERIALS AND SUPPLIES

In 1949 there were extended periods of suspension of work in the coal fields due to labor disputes. However, because of your company's increased use of Diesel power and consequent reduced demand for coal as a locomotive fuel, it was possible to obtain amounts of fair quality coal sufficient to meet requirements. Locomotive coal purchased amounted to 268,053 net tons at an average cost, f.o.b. B. & M. line, of \$7.90 per net ton. This compares with purchase of 443,000 net tons in 1948, at an average cost of \$7.76 per net ton.

Diesel fuel oil of high quality was available in ample supply throughout the year because of the mild weather during the first and last quarters of 1949. Diesel fuel oil purchased for use totaled 20,970,053 gallons, at an average cost of 8.96¢ per gallon, as compared with 20,925,535 gallons purchased at an average price of 10.12¢ per gallon in 1948.

The total cost of all materials and supplies purchased including fuel oil and locomotive coal, but excluding equipment purchases, was 23.9% less than in 1948. Total purchases in 1949 amounted to \$11,845,228 as compared with \$15,566,377 in 1948.



A powerful magnet pulls out plates and spikes clearing way for replacement of ties and track on Troy Branch.

## HOOSAC AND MYSTIC DOCKS

In the 1947 and 1948 Annual Reports mention was made of the program of the Commonwealth of Massachusetts to develop the port facilities of Boston. Such program contemplated the acquisition from this company of its Hoosac and Mystic Docks and of the Hoosac Grain Elevator, the reconstruction of said properties to modernize the port facilities and the leasing of the modernized facilities to the company for operation. The modern pier facilities of Hoosac Docks are rapidly nearing completion and the Grain Elevator has been improved by the installation of new machinery. It is expected that by the middle of 1950, your company will operate those properties as lessee.

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*The Board records, with sorrow, the death on December 26, 1949, of BERNARD W. DOYLE, and on February 24, 1950, of LOUIS M. ATHERTON. Mr. Doyle was elected to the Board on February 27, 1945, and Mr. Atherton on April 14, 1926. Both had served the Railroad and their respective communities with honor and distinction, and their deaths constitute a severe and unfortunate loss.*

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The continuing cooperation of your company's customers, and the willing efforts of officers and employees alike to retain the good will of shippers and passengers, as well as to operate the Railroad in the best interests of its owners, is gratefully acknowledged.

*For the Board of Directors*

President

Boston, Massachusetts,  
March 15, 1950.

## Assets

## Condensed General Balance Sheet

## Liabilities

	Dec. 31, 1949	Dec. 31, 1948
<b>ROAD AND EQUIPMENT</b>		
Investment in Road	\$191,268,443 75	\$184,329,586 50
Investment in Equipment	62,341,673 69	61,429,617 14
<i>Total</i>	<b>\$253,610,117 44</b>	<b>\$245,759,203 64</b>
Improvements on Leased Property	10,020,595 84	13,474,684 88
Acquisition Adjustment	c 5,952,965 13	c 5,518,025 98
Donations and Grants	c 53,484 58	c 72,465 79
<i>Total Investment in Transportation Property</i>	<b>\$257,624,263 57</b>	<b>\$253,643,406 75</b>
Accrued Depreciation — Road and Equipment	c 21,319,623 07	c 21,285,444 84
Accrued Amortization of Defense Projects — Road and Equipment	c 10,646,169 63	c 10,636,540 75
<i>Investment in Transportation Property less Recorded Depreciation and Amortization</i>	<b>\$225,658,470 87</b>	<b>\$221,721,421 16</b>
Sinking Funds	1,679 32	1,217 12
Capital and Other Reserve Funds	1,025,724 02	814,409 37
Miscellaneous Physical Property	408,688 26	400,417 82
Investments in Affiliated Companies	2,842,638 82	6,885,631 73
Other Investments	347,917 38	17,501 00
<i>Total Investments</i>	<b>\$230,285,118 67</b>	<b>\$229,840,598 20</b>
<b>CURRENT ASSETS</b>		
Cash	\$ 6,823,980 81	\$ 7,567,397 30
Cash in Transit — Agents' Remittances	845,034 44	791,423 41
Temporary Cash Investments	8,015,000 00	8,015,000 00
Special Deposits	2,204,238 03	2,291,765 75
Loans and Bills Receivable	—	23,526 97
Net Balance Receivable from Agents and Conductors	1,747,155 85	1,788,774 05
Miscellaneous Accounts Receivable	2,960,018 06	3,585,439 30
Material and Supplies	5,056,082 39	5,633,695 41
Interest and Dividends Receivable	124,672 89	170,391 77
Accrued Accounts Receivable	522,412 07	1,003,681 18
Other Current Assets	79,799 03	93,017 55
<i>Total Current Assets</i>	<b>\$ 28,378,393 57</b>	<b>\$ 30,964,112 69</b>
<b>DEFERRED ASSETS</b>		
Working Fund Advances	\$ 17,581 09	\$ 17,253 09
Insurance and Other Funds	1,819,456 56	1,791,977 12
Other Deferred Assets	270,504 00	288,056 96
<i>Total Deferred Assets</i>	<b>\$ 2,107,541 65</b>	<b>\$ 2,097,287 17</b>
<b>UNADJUSTED DEBITS</b>		
Prepayments	\$ 225,775 16	\$ 170,523 62
Discount on Funded Debt	373,020 91	409,841 33
Property Retired Chargeable to Operating Expenses	942,789 23	
Other Unadjusted Debits	484,782 03	650,505 25
Securities Issued or Assumed — Unpledged	5,453,000 00	3,697,700 00
<i>Total Unadjusted Debits</i>	<b>\$ 7,479,367 33</b>	<b>\$ 4,928,570 20</b>
<i>Grand Total</i>	<b>\$268,250,421 22</b>	<b>\$267,830,568 26</b>

	Dec. 31, 1949	Dec. 31, 1948
<b>CAPITAL STOCK</b>		
Common Stock — 395,051 shares	\$ 39,505,100 00	\$ 39,505,100 00
Preferred Stock — 31,498 shares	3,149,800 00	3,149,800 00
First Preferred Stock — 388,179 shares	38,817,900 00	38,817,900 00
Prior Preference Stock (Includes Negotiable Receipts)	23,138,500 00	23,138,500 00
<i>Total Capital Stock</i>	(a) \$104,611,300 00	(a) \$104,611,300 00
Premiums on Capital Stock	4,227,040 14	4,227,040 14
<i>Total Capital Stock and Premiums</i>	<b>\$108,838,340 14</b>	<b>\$108,838,340 14</b>
Stock Liability for Conversion	\$ 1,200 00	\$ 1,200 00
<b>LONG-TERM DEBT</b>		
Funded Debt Unmatured	(b) \$ 89,482,900 00	\$ 90,019,900 00
Lease and Purchase Agreements — Equipment	10,436,102 70	10,813,892 69
<i>Total Long-Term Debt</i>	<b>\$ 99,919,002 70</b>	<b>\$100,833,792 69</b>
<b>CURRENT LIABILITIES</b>		
Traffic and Car Service Balances — Net Payable	\$ 3,965,178 36	\$ 3,560,295 65
Audited Accounts and Wages Payable	3,137,475 67	3,221,559 62
Miscellaneous Accounts Payable	2,065,335 06	1,768,526 53
Interest Matured Unpaid	1,256,867 13	1,280,750 33
Dividends Matured Unpaid	15,801 20	15,831 70
Unmatured Interest Accrued	1,206,654 39	1,257,746 99
Accrued Accounts Payable	1,109,059 87	1,647,622 60
Taxes Accrued	3,498,231 96	4,038,028 78
Other Current Liabilities	58,469 22	51,341 29
<i>Total Current Liabilities</i>	<b>\$ 16,313,072 86</b>	<b>\$ 16,841,703 49</b>
<b>DEFERRED LIABILITIES</b>		
New York State E.G.C. Projects	\$ 324,212 52	\$ 332,786 23
Other Deferred Liabilities	101,909 59	91,770 97
<i>Total Deferred Liabilities</i>	<b>\$ 426,122 11</b>	<b>\$ 424,557 20</b>
<b>UNADJUSTED CREDITS</b>		
Insurance Reserves	\$ 50,000 00	\$ 50,000 00
Accrued Depreciation — Leased Property	113,898 61	347,348 29
Other Unadjusted Credits	289,194 98	635,534 90
<i>Total Unadjusted Credits</i>	<b>\$ 453,093 59</b>	<b>\$ 1,032,883 15</b>
<b>SURPLUS</b>		
Additions to Property through Income and Surplus	\$ 14,822,146 85	\$ 14,822,146 85
Funded Debt Retired through Income and Surplus	19,861,020 66	19,182,100 44
Sinking Fund Reserves	484,606 10	1,554 32
Miscellaneous Fund Reserves	1,137,387 25	1,061,089 31
Appropriated Surplus — Purchase of Leased Line Bonds	357,000 00	357,000 00
<i>Total Appropriated Surplus</i>	<b>\$ 36,662,160 86</b>	<b>\$ 35,423,890 92</b>
Unearned Surplus	598,088 04	598,088 04
Earned Surplus	(c) 5,039,340 92	(c) 3,836,112 59
<i>Total Surplus</i>	<b>\$ 42,299,589 82</b>	<b>\$ 39,858,091 55</b>
<i>Grand Total</i>	<b>\$268,250,421 22</b>	<b>\$267,830,568 26</b>

c Indicates Credit Balance.

(a) Includes \$264,000.00 held by or for Company.  
(b) Includes \$5,850,000.00 held by or for Company.  
(c) Includes Surplus Earned by Lessor Companies before Consolidation.

Income Account

	Year ended Dec. 31, 1949	Increase or Decrease	Per Cent
<b>TRANSPORTATION REVENUE</b>			
Freight . . . . .	\$61,721,865 97	d\$ 9,115,010 40	12.87
Passenger . . . . .	13,033,032 83	d 1,830,639 45	12.32
Baggage . . . . .	16,992 46	d 1,357 07	7.40
Parlor and Chair Car . . . . .	38,591 10	d 14,520 84	27.34
Mail . . . . .	2,271,908 16	d 256,829 98	12.75
Express . . . . .	653,052 68	d 524,767 12	44.55
Other Passenger-Train . . . . .	301,039 31	d 5,151 58	1.68
Milk . . . . .	1,361,966 42	d 47,148 38	3.35
Switching . . . . .	729,567 92	d 100,015 63	12.06
<i>Total Transportation Revenue</i> . . . . .	\$80,128,016 85	d\$11,381,780 49	12.44
<b>INCIDENTAL REVENUE</b>			
Dining and Buffet . . . . .	\$ 129,670 32	d\$ 114,000 29	46.78
Station and Train Privileges . . . . .	144,082 25	d 18,334 04	11.29
Parcel Room . . . . .	20,628 82	d 7,211 33	25.90
Storage — Freight . . . . .	44,244 47	d 32,302 09	42.20
Storage — Baggage . . . . .	5,012 99	d 531 04	9.58
Demurrage . . . . .	206,109 65	d 240,120 46	53.81
Telegraph and Telephone . . . . .	30,930 44	d 2,063 99	6.26
Grain Elevators . . . . .	42,083 47	d 3,810 07	9.95
Power . . . . .	71,732 34	d 188 89	.26
Rents of Buildings and Other Property . . . . .	914,714 23	d 155,940 48	14.56
Miscellaneous . . . . .	288,850 60	d 8,320 32	2.97
<i>Total Incidental Revenue</i> . . . . .	\$ 1,898,059 58	d\$ 558,562 22	22.74
Joint Facility — Cr. . . . .	\$ 218,377 31	\$ 12,356 48	6.00
Joint Facility — Dr. . . . .	5,472 88	d 1,038 97	15.96
<i>Total Joint Facility Operating Revenue</i> . . . . .	\$ 212,904 43	\$ 13,395 45	6.71
<i>Total Operating Revenues</i> . . . . .	\$82,238,980 86	d\$11,926,947 26	12.67
<b>OPERATING EXPENSES</b>			
Maintenance of Way and Structures . . . . .	\$13,676,003 08	d\$ 1,929,028 90	12.36
Maintenance of Equipment . . . . .	12,809,547 96	d 1,439,033 84	10.10
Traffic . . . . .	1,253,135 63	d 8,322 22	.66
Transportation . . . . .	35,744,052 12	d 3,221,303 95	8.27
Miscellaneous Operations . . . . .	216,654 79	d 122,774 30	36.17
General . . . . .	3,392,178 92	d 69,686 49	2.10
<i>Total Operating Expenses</i> . . . . .	\$67,091,572 50	d\$ 6,650,776 72	9.02
<i>Operating Ratio</i> . . . . .	(81.58%)	(3.27%)	
<i>Net Operating Revenue</i> . . . . .	\$15,147,408 36	d\$ 5,276,170 54	25.83

d Indicates decrease.

Income Account (Continued)

	Year ended Dec. 31, 1949	Increase or Decrease	Per Cent
<b>TAX ACCRUALS</b> . . . . .	\$6,481,145 68	d\$1,256,211 43	16.24
<i>Operating Income</i> . . . . .	\$8,666,262 68	d\$4,019,959 11	31.69
Rent from Locomotives . . . . .	\$ 31,835 74	d\$ 1,593 84	4.77
Rent from Passenger-Train Cars . . . . .	522,505 20	d 21,178 92	3.90
Rent from Work Equipment . . . . .	72,799 85	d 57,509 79	376.13
Joint Facility Rent Income . . . . .	385,931 57	d 33,756 20	9.59
<i>Total Rent Income</i> . . . . .	\$1,013,072 36	\$ 68,493 23	7.25
Hire of Freight Cars — Debit Balance . . . . .	\$3,364,364 98	d\$ 486,297 38	12.63
Rent for Locomotives . . . . .	1,960 86	d 161 20	8.96
Rent for Passenger-Train Cars . . . . .	588,218 15	d 149,211 17	20.23
Rent for Work Equipment . . . . .	292 46	d 1,070 76	78.55
Joint Facility Rents . . . . .	740,938 97	d 27,848 69	3.62
<i>Total Rents Payable</i> . . . . .	\$4,695,775 42	d\$ 664,266 80	12.39
<i>Net Rents Payable</i> . . . . .	\$3,682,703 06	d\$ 732,760 03	16.60
<i>Net Railway Operating Income</i> . . . . .	\$4,983,559 62	d\$3,287,199 08	39.74
<b>OTHER INCOME</b>			
Income from Lease of Road and Equipment . . . . .	\$ 1,783 44	d\$ 216 56	10.83
Miscellaneous Rent Income . . . . .	455,764 80	d 5,037 82	1.09
Miscellaneous Nonoperating Physical Property . . . . .	11,843 00	d 50 22	.42
Dividend Income . . . . .	10,725 50	d 2,372 50	28.40
Income from Funded Securities . . . . .	242,670 76	d 27,088 53	10.04
Income from Unfunded Securities and Accounts . . . . .	123,668 69	d 33,778 23	37.58
Income from Sinking and Other Reserve Funds . . . . .	85,058 72	d 7,557 72	9.75
Miscellaneous Income . . . . .	49,032 08	d 738 70	1.53
<i>Total Other Income</i> . . . . .	\$ 980,546 99	\$ 12,054 02	1.24
<i>Total Income</i> . . . . .	\$5,964,106 61	d\$3,275,145 06	35.45

*Income Account (Concluded)*

*Earned Surplus—December 31, 1949*

	Year ended Dec. 31, 1949	Increase or Decrease	Per Cent
<b>MISCELLANEOUS DEDUCTIONS FROM INCOME</b>			
Miscellaneous Rents . . . . .	\$ 11,663 35	\$ 3,226 90	38.25
Miscellaneous Tax Accruals . . . . .	12,900 00	1,875 00	17.01
Miscellaneous Income Charges . . . . .	20,961 99	2,533 53	13.75
Income Applied to Sinking and Other Reserve Funds . . . . .	80,865 50	4,739 50	6.23
<i>Total Miscellaneous Deductions . . . . .</i>	<i>\$ 126,390 84</i>	<i>\$ 12,374 93</i>	<i>10.85</i>
<i>Income Available for Fixed Charges . . . . .</i>	<i>\$5,837,715 77</i>	<i>d\$3,287,519 99</i>	<i>36.03</i>
<b>FIXED CHARGES</b>			
Rent for Leased Roads . . . . .	\$ 677,949 08	—	—
Interest on Funded Debt—Fixed Interest . . . . .	2,674,643 77	d\$ 35,534 57	1.31
Interest on Unfunded Debt . . . . .	14,227 42	d 13,845 78	49.32
Amortization of Discount on Funded Debt . . . . .	27,936 29	d 1,067 83	3.68
<i>Total Fixed Charges . . . . .</i>	<i>\$3,394,756 56</i>	<i>d\$ 50,448 18</i>	<i>1.46</i>
<i>Income after Fixed Charges (Available Net Income)</i>	<i>\$2,442,959 21</i>	<i>d\$3,237,071 81</i>	<i>56.99</i>
<b>CONTINGENT CHARGES</b>			
Sinking Fund—Series RR Bonds . . . . .	\$ 679,102 00	—	—
Interest on Funded Debt—Contingent Interest . . . . .	1,121,859 86	d\$ 53,787 52	—
Sinking Fund—Series A Bonds . . . . .	482,870 00	—	—
<i>Total Contingent Charges . . . . .</i>	<i>\$2,283,831 86</i>	<i>d\$ 53,787 52</i>	<i>—</i>
<i>Net Income after Fixed Charges and Other Deductions, transferred to Profit and Loss . . . . .</i>	<i>\$ 159,127 35</i>	<i>d\$3,183,284 29</i>	<i>—</i>

d Indicates decrease.

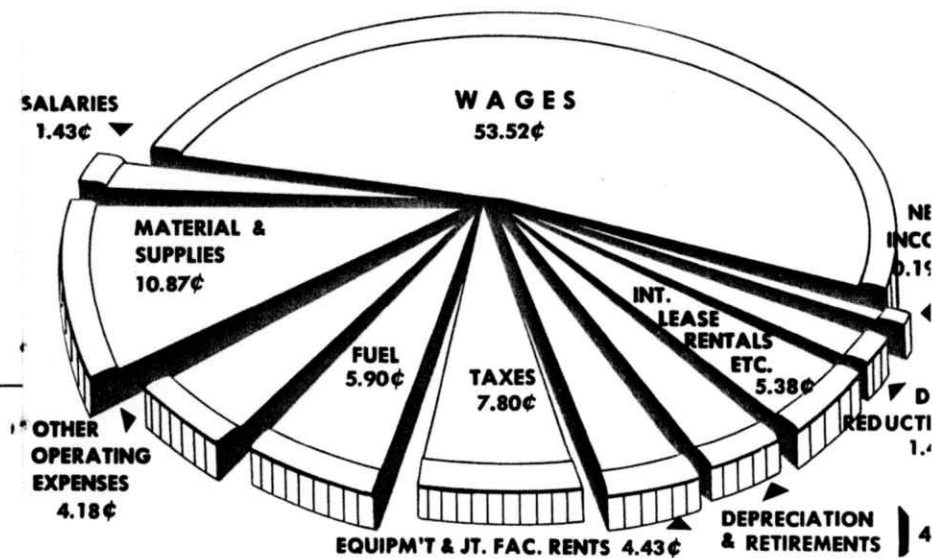
Item	Debit	Credit
Balance, December 31, 1948 (Credit) . . . . .		(a) \$3,836,112 59
Credit Balance from Income Account for year 1949 . . . . .		159,127 35
Adjustment to Par of Boston and Maine Railroad Bonds purchased during 1949 . . . . .		954,275 20
Profit on Retired Miscellaneous Property Sold . . . . .		77,249 70
Miscellaneous Credits—Net . . . . .		12,576 08
Credit Balance, December 31, 1949 . . . . .	(a) \$5,039,340 92	
	\$5,039,340 92	\$5,039,340 92

(a) Includes Surplus Earned by Lessor Companies before Consolidation.

**DISTRIBUTION OF THE INCOME DOLLAR — 1949**

Average No. of employees, 13,209

Total payroll — all services, \$47,670,683.



Operating Expenses

Operating Expenses (Continued)

	Year ended Dec. 31, 1949	Increase or Decrease
<b>MAINTENANCE OF WAY AND STRUCTURES</b>		
Superintendence . . . . .	\$ 872,744 13	\$ 13,153 28
Roadway Maintenance . . . . .	1,056,377 23	d 56,837 49
Tunnels and Subways . . . . .	49,367 84	10,039 36
Bridges, Trestles and Culverts . . . . .	296,502 94	d 65,328 51
Ties . . . . .	485,848 17	d 85,410 27
Rails . . . . .	253,899 24	192,095 03
Other Track Material . . . . .	448,993 13	135,946 90
Ballast . . . . .	95,600 96	d 31,204 63
Track Laying and Surfacing . . . . .	3,382,355 51	d 245,172 81
Fences, Snowsheds and Signs . . . . .	109,932 71	6,858 20
Station and Office Buildings . . . . .	678,691 28	d 29,599 58
Roadway Buildings . . . . .	56,003 20	d 752 95
Water Stations . . . . .	42,876 44	d 18,292 68
Fuel Stations . . . . .	65,900 90	405 76
Shops and Enginehouses . . . . .	496,000 38	d 21,507 75
Grain Elevators . . . . .	11,917 58	d 508 80
Storage Warehouses . . . . .	383 65	d 4,609 44
Wharves and Docks . . . . .	18,535 04	d 21,389 50
Coal and Ore Wharves . . . . .	45,366 02	5,157 17
Telegraph and Telephone Lines . . . . .	70,035 09	d 18,134 06
Signals and Interlockers . . . . .	909,676 56	d 210,882 59
Power Plants . . . . .	12,255 63	5,586 16
Power-Transmission Systems . . . . .	45,936 42	d 8,577 55
Miscellaneous Structures . . . . .	250 43	118 64
Road Property — Depreciation . . . . .	1,640,367 96	d 14,054 00
Retirements — Road . . . . .	621,197 63	346,749 36
Roadway Machines . . . . .	160,054 64	d 21,268 77
Dismantling Retired Road Property . . . . .	128,207 69	80,930 62
Small Tools and Supplies . . . . .	204,976 94	d 27,038 03
Removing Snow, Ice and Sand . . . . .	591,122 15	d 1,706,010 05
Public Improvements — Maintenance . . . . .	269,983 96	d 2,781 27
Injuries to Persons . . . . .	78,092 04	d 2,333 63
Insurance . . . . .	20,157 55	d 7,108 04
Stationery and Printing . . . . .	14,084 32	d 74 37
Other Expenses . . . . .	2,103 28	d 26,002 43
Maintaining Joint Tracks, Yards and Other Facilities — Dr. . . . .	543,730 02	d 73,975 46
Maintaining Joint Tracks, Yards and Other Facilities — Cr. . . . .	103,525 58	27,214 72
<i>Total Maintenance of Way and Structures</i> . . . . .	\$13,676,003 08	d \$1,929,028 90
<i>Ratio to Total Operating Revenues</i>	(16.63%)	(.06%)

	Year ended Dec. 31, 1949	Increase or Decrease
<b>MAINTENANCE OF EQUIPMENT</b>		
Superintendence . . . . .	\$ 652,704 11	\$ 10,255 60
Shop Machinery . . . . .	233,883 11	d 94,223 94
Power-Plant Machinery . . . . .	57,933 27	d 22,842 93
Shop and Power-Plant Machinery — Depreciation . . . . .	102,033 00	585 00
Dismantling Retired Shop and Power- Plant Machinery . . . . .	194 96	d 2,118 11
Steam Locomotives — Repairs . . . . .	2,178,210 72	d 1,599,665 59
Other Locomotives — Repairs . . . . .	2,025,427 67	162,017 76
Freight-Train Cars — Repairs . . . . .	2,289,879 50	d 59,610 63
Passenger-Train Cars — Repairs . . . . .	2,786,872 82	31,960 32
Work Equipment — Repairs . . . . .	307,033 80	d 74,382 58
Miscellaneous Equipment — Repairs . . . . .	8,556 22	d 9,917 48
Dismantling Retired Equipment . . . . .	50,431 76	7,393 49
Retirements — Equipment . . . . .	—	650 00
Equipment — Depreciation . . . . .	1,689,188 70	103,065 99
Equipment — Amortization of De- fense Projects . . . . .	25,756 88	44 00
Injuries to Persons . . . . .	88,840 57	11,531 44
Insurance . . . . .	85,746 75	26,333 11
Stationery and Printing . . . . .	10,256 55	d 1,010 16
Other Expenses . . . . .	71,268 14	47,159 81
Joint Maintenance of Equipment Expenses — Dr. . . . .	153,183 64	24,980 46
Joint Maintenance of Equipment Expenses — Cr. . . . .	7,854 21	1,239 40
<i>Total Maintenance of Equipment.</i>	\$12,809,547 96	d \$1,439,033 84
<i>Ratio to Total Operating Revenues</i>	(15.58%)	(.45%)
<b>TRAFFIC</b>		
Superintendence . . . . .	\$ 500,540 10	\$ 15,231 23
Outside Agencies . . . . .	417,428 52	7,906 90
Advertising . . . . .	206,307 78	d 31,025 76
Traffic Associations . . . . .	57,218 17	557 32
Industrial and Immigration Bureaus . . . . .	19,565 60	729 32
Insurance . . . . .	97 78	47 77
Stationery and Printing . . . . .	51,977 68	d 1,769 00
<i>Total Traffic</i> . . . . .	\$ 1,253,135 63	d \$ 8,322 22
<i>Ratio to Total Operating Revenues</i>	(1.52%)	(.18%)

d Indicates decrease.

d Indicates decrease.

Operating Expenses (Continued)

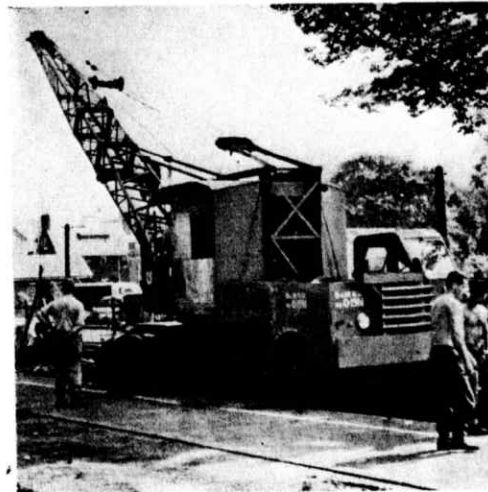
	Year ended Dec. 31, 1949	Increase or Decrease
<b>TRANSPORTATION</b>		
Superintendence . . . . .	\$ 914,677 95	\$ 12,426 64
Dispatching Trains . . . . .	346,202 93	20,119 18
Station Employees . . . . .	5,739,861 64	d 516,546 32
Weighing, Inspection and Demurrage Bureaus . . . . .	36,397 11	2,472 95
Station Supplies and Expenses . . . . .	536,572 76	d 53,142 81
Yardmasters and Yard Clerks . . . . .	1,153,606 39	d 55,852 21
Yard Conductors and Brakemen . . . . .	2,083,245 43	d 221,199 76
Yard Switch and Signal Tenders . . . . .	395,275 70	21,398 32
Yard Enginemen . . . . .	335,463 85	d 339,584 69
Yard Motormen . . . . .	892,594 60	210,144 14
Yard Switching Fuel . . . . .	450,973 76	d 211,722 45
Water for Yard Locomotives . . . . .	10,887 64	d 2,632 03
Lubricants for Yard Locomotives . . . . .	26,353 16	1,237 81
Other Supplies for Yard Locomotives . . . . .	15,569 46	d 5,116 42
Enginehouse Expenses — Yard . . . . .	226,569 19	d 61,342 36
Yard Supplies and Expenses . . . . .	75,276 94	d 13,725 43
Operating Joint Yards and Terminals — Dr. . . . .	2,446,063 79	d 75,268 18
Operating Joint Yards and Terminals — Cr. . . . .	411,283 92	7,628 72
Train Enginemen . . . . .	1,541,712 67	d 676,113 48
Train Motormen . . . . .	1,903,106 45	460,760 92
Train Fuel . . . . .	3,777,217 88	d 1,007,845 26
Train Power Purchased . . . . .	40,000 00	40,000 00
Water for Train Locomotives . . . . .	87,320 46	d 39,478 50
Lubricants for Train Locomotives . . . . .	202,661 82	d 14,472 10
Other Supplies for Train Locomotives . . . . .	116,177 62	d 12,521 66
Enginehouse Expenses — Train . . . . .	1,733,191 22	d 99,613 66
Trainmen . . . . .	4,972,854 94	d 148,601 68
Train Supplies and Expenses . . . . .	2,286,266 04	d 73,797 82
Signal and Interlocker Operation . . . . .	685,215 21	39,849 60
Crossing Protection . . . . .	1,543,816 75	17,190 64
Drawbridge Operation . . . . .	56,594 75	3,517 26
Telegraph and Telephone Operation . . . . .	58,589 72	3,668 54
Stationery and Printing . . . . .	155,638 26	d 29,204 25
Other Expenses . . . . .	40,592 42	6,260 47
Operating Joint Tracks and Facilities — Dr. . . . .	39,971 16	2,137 60
Operating Joint Tracks and Facilities — Cr. . . . .	60,203 76	2,603 85
Insurance . . . . .	23,562 29	7,522 99
Clearing Wrecks . . . . .	63,881 25	d 39,659 05
Damage to Property . . . . .	67,341 05	52,326 81
Damage to Live Stock on Right of Way . . . . .	4,995 68	d 2,725 93
Loss and Damage — Freight . . . . .	795,229 06	d 265,729 71
Loss and Damage — Baggage . . . . .	5,902 72	1,729 52
Injuries to Persons . . . . .	328,108 08	d 147,939 01
<b>Total Transportation . . . . .</b>	<b>\$35,744,052 12</b>	<b>d \$3,221,303 95</b>
<b>Ratio to Total Operating Revenues</b>	<b>(43.46%)</b>	<b>(2.08%)</b>

d Indicates decrease.

Operating Expenses (Concluded)

	Year ended Dec. 31, 1949	Increase or Decrease
<b>MISCELLANEOUS OPERATIONS</b>		
Dining and Buffet Service . . . . .	\$ 192,341 89	d \$ 119,890 07
Grain Elevators . . . . .	24,301 84	d 2,878 49
Other Miscellaneous Operations . . . . .	11 06	d 5 74
<b>Total Miscellaneous Operations . . . . .</b>	<b>\$ 216,654 79</b>	<b>d \$ 122,774 30</b>
<b>Ratio to Total Operating Revenues</b>	<b>(.26%)</b>	<b>(.10%)</b>
<b>GENERAL</b>		
Salaries and Expenses of General Officers . . . . .	\$ 226,455 36	\$ 22,484 18
Salaries and Expenses of Clerks and Attendants . . . . .	2,242,030 08	30,730 50
General Office Supplies and Expenses . . . . .	160,749 64	d 1,687 47
Law Expenses . . . . .	203,590 65	39,055 26
Insurance . . . . .	704 99	d 95 37
Pensions and Gratuities . . . . .	311,214 57	d 12,063 17
Stationery and Printing . . . . .	67,573 04	2,428 20
Valuation Expenses . . . . .	36,737 08	d 853 30
Other Expenses . . . . .	117,955 01	d 14,461 03
General Joint Facilities — Dr. . . . .	25,168 50	4,148 69
<b>Total General . . . . .</b>	<b>\$ 3,392,178 92</b>	<b>\$ 69,686 49</b>
<b>Ratio to Total Operating Revenues</b>	<b>(4.13%)</b>	<b>(.60%)</b>
<b>Total Operating Expenses</b>	<b>\$67,091,572 50</b>	<b>d \$6,650,776 72</b>
<b>Ratio to Total Operating Revenues</b>	<b>(81.58%)</b>	<b>(3.27%)</b>

d Indicates decrease.



20-ton motor truck crane removing old ballast for replacement at Winchester, Mass.

Capital Stock and Long-Term Debt Outstanding

CAPITAL STOCK	Amount Outstanding	Dividend Rate
Prior Preference	\$ 23,136,100 00	7 <sup>0</sup> / <sub>10</sub>
Prior Preference Negotiable Receipts	2,400 00	7 <sup>0</sup> / <sub>10</sub>
First Preferred Class A	18,860,000 00	5 <sup>0</sup> / <sub>10</sub>
" " B	7,648,800 00	8 <sup>0</sup> / <sub>10</sub>
" " C	7,917,100 00	7 <sup>0</sup> / <sub>10</sub>
" " D	4,327,000 00	10 <sup>0</sup> / <sub>10</sub>
" " E	65,000 00	4 1/2 <sup>0</sup> / <sub>10</sub>
Preferred	3,149,800 00	6 <sup>0</sup> / <sub>10</sub>
Common	39,505,100 00	
	<b>\$104,611,300 00</b>	

LONG-TERM DEBT	Amount Outstanding
Bonds secured by Mortgage dated December 1, 1919, supplemented as of July 1, 1940	
Series II	\$ 25,000 00
" RR	1,237,000 00
" JJ	56,833,400 00
" AC	902,000 00
Income Mortgage " A	3,065,000 00
Vermont Valley Railroad 1st Mortgage Bonds	27,130,500 00
	c 290,000 00
<i>Total Mortgage Bonds</i>	<b>\$89,482,900 00</b>
Lease and Purchase Agreements — Equipment	10,436,102 70
<i>Grand Total Long-Term Debt</i>	<b>\$99,919,002 70</b>

December 31, 1949—Owned Road

Cumulative Dividends Unpaid Since †Jan. 1, 1932 — *Oct. 1, 1931	Amount in Hands of Public	Owned, Deposited with Trustee, or Held in Treasury**
†\$126 00 per share \$28,903,140 00	\$ 22,939,000 00	\$ 197,100 00
†\$126 00 " " 3,024 00	2,400 00	
*\$ 91 25 " " 17,186,116 25	18,834,100 00	25,900 00
*\$146 00 " " 11,167,248 00	7,648,800 00	
*\$127 75 " " 10,106,941 25	7,911,500 00	5,600 00
*\$182 50 " " 7,891,117 50	4,323,900 00	3,100 00
*\$ 82 125 " " 53,381 25	65,000 00	
Non-cumulative	3,149,800 00	
	39,472,800 00	32,300 00
	<b>\$104,347,300 00</b>	<b>\$ 264,000 00</b>

Date of Maturity	Rate	Amount	Owned, Deposited with Trustee, or Held in Treasury**
July 1, 1950	3 <sup>0</sup> / <sub>10</sub>	\$ 10,000 00	b \$ 15,000 00
May 1, 1955	5 <sup>0</sup> / <sub>10</sub>	1,237,000 00	
July 1, 1960	4 <sup>0</sup> / <sub>10</sub>	54,526,900 00	2,306,500 00
April 1, 1961	4 3/4 <sup>0</sup> / <sub>10</sub>	897,000 00	b 5,000 00
September 1, 1967	5 <sup>0</sup> / <sub>10</sub>	2,424,000 00	b 641,000 00
July 1, 1970	4 1/2 <sup>0</sup> / <sub>10</sub>	24,248,000 00	2,882,500 00
October 1, 1955	4 <sup>0</sup> / <sub>10</sub>	290,000 00	
Various	Various	\$ 83,632,900 00	\$5,850,000 00
		10,436,102 70	
		<b>\$ 94,069,002 70</b>	<b>\$5,850,000 00</b>

\*\* No interest.  
a Includes 12 shares held for conversion of Concord & Montreal Railroad Stock.  
b Deposited with and held by Trustee in Lieu of Mortgaged Property Sold, to release would require cash payment at par.  
c Issued under Vermont Valley Railroad Mortgage dated October 1, 1940, assumed on December 31, 1949.

Capital Stock Outstanding December 31, 1949—Leased Roads

CAPITAL STOCK	Amount Outstanding	Dividend Rate (Paid as rental)	Owned, Held in Treasury or Insurance Fund
Stony Brook	\$ 300,000 00	7 <sup>0</sup> / <sub>10</sub>	\$ 38,700 00
Northern	3,068,400 00	6 <sup>0</sup> / <sub>10</sub>	958,900 00
Vermont and Massachusetts	3,193,000 00	6 <sup>0</sup> / <sub>10</sub>	445,600 00
<i>Total Capital Stock</i>	<b>\$6,561,400 00</b>		<b>\$1,443,200 00</b>

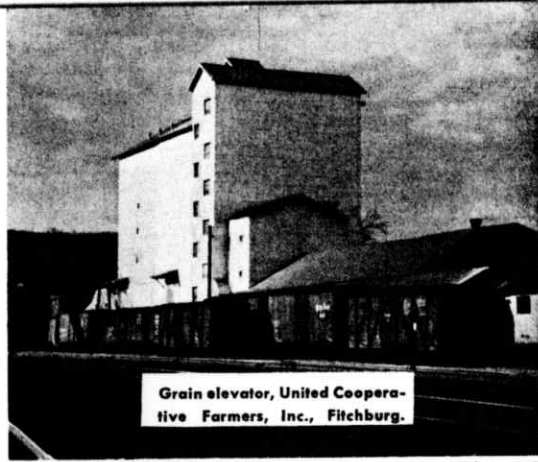
Miles of Road Operated, December 31, 1949

STEAM ROADS	Owned	Leased	Total
Main Lines	877 68	137 20	1,014 88
Branch Lines	610 14	4 74	614 88
Trackage Rights	—	82 23	82 23
<i>Total Road Operated</i>	<b>1,487 82</b>	<b>224 17</b>	<b>1,711 99</b>
Second Track	478 25	a 81 17	559 42
Third Track	8 06	b 7 69	15 75
Other Tracks	890 85	99 91	990 76
<i>Total Track Operated</i>	<b>2,864 98</b>	<b>412 94</b>	<b>3,277 92</b>

a Includes trackage rights 14.48 miles  
b Includes trackage rights .99 mile.



**SOME NEW  
INDUSTRIAL  
CONSTRUCTION  
IN 1949  
ON THE LINES OF  
THE BOSTON AND MAINE**



Grain elevator, United Cooperative Farmers, Inc., Fitchburg.



New warehouse of United Motors, Division of General Motors Corp., at Waburn.



Installing side track connection at United-Murray Heel, Inc., No. Walpole, N. H.



Avery & Saul Company, Steel Fabricators, West Cambridge

*Additions and Betterments (Operating Property)—December 31, 1949*

		Gross Expenditures	Property Retired	Net Capital Changes
<b>ROAD</b>	<b>TITLE ACCOUNT</b>			
1	Engineering . . . . .	\$ 209,888 73	\$ 120,012 87	\$ 89,875 86
2	Land for Transportation Purposes . . . . .	353,356 00	325,213 70	28,142 30
2½	Other Right-of-Way Expenditures . . . . .	1,592 00	654 00	938 00
3	Grading . . . . .	1,505,347 49	466,449 48	1,038,898 01
5	Tunnels and Subways . . . . .	50,399 12	—	50,399 12
6	Bridges, Trestles and Culverts . . . . .	701,413 23	289,588 25	411,826 98
8	Ties . . . . .	241,834 12	172,899 92	68,934 20
9	Rails . . . . .	781,389 74	558,153 68	223,236 06
10	Other Track Material . . . . .	583,122 83	351,214 23	231,908 60
11	Ballast . . . . .	115,719 55	112,733 96	2,985 59
12	Track Laying and Surfacing . . . . .	240,670 70	183,961 97	56,708 73
13	Fences, Snowsheds and Signs . . . . .	35,939 06	35,462 34	476 72
16	Station and Office Buildings . . . . .	466,480 29	243,319 93	223,160 36
17	Roadway Buildings . . . . .	15,696 43	47,640 00	31,943 57
18	Water Stations . . . . .	25,259 64	122,869 56	97,609 92
19	Fuel Stations . . . . .	266,123 18	65,496 09	200,627 09
20	Shops and Enginehouses . . . . .	215,156 64	289,368 86	74,210 22
26	Telegraph and Telephone Lines . . . . .	45,136 12	15,207 95	31,928 17
27	Signals and Interlockers . . . . .	849,191 07	105,083 23	744,107 84
29	Power Plants . . . . .	146 72	1,040 00	893 28
31	Power-Transmission Systems . . . . .	61,809 73	3,234 03	58,575 70
35	Miscellaneous Structures . . . . .	611 11	—	611 11
37	Roadway Machines . . . . .	137,363 91	36,272 68	101,091 23
38	Roadway Small Tools . . . . .	1,762 53	1,643 00	119 53
39	Public Improvements — Construction . . . . .	82,164 12	51,812 65	30,351 47
44	Shop Machinery . . . . .	61,838 79	144,140 18	82,301 39
45	Power-Plant Machinery . . . . .	89,137 55	30,017 78	59,119 77
	<b>Total Road . . . . .</b>	<b>\$ 7,138,550 40</b>	<b>\$3,771,486 34</b>	<b>\$3,367,064 06</b>
<b>EQUIPMENT</b>				
51	Steam Locomotives . . . . .	\$ 25,750 98	\$1,127,853 59	\$1,102,102 61
52	Other Locomotives . . . . .	3,436,839 19	159,735 37	3,277,103 82
53	Freight-Train Cars . . . . .	88,265 33	1,025,831 11	937,565 78
54	Passenger-Train Cars . . . . .	128,762 97	570,583 10	441,820 13
57	Work Equipment . . . . .	351,686 45	129,671 63	222,014 82
58	Miscellaneous Equipment . . . . .	2,073 24	13,251 47	11,178 23
	<b>Total Equipment . . . . .</b>	<b>\$ 4,033,378 16</b>	<b>\$3,026,926 27</b>	<b>\$1,006,451 89</b>
<b>GENERAL EXPENDITURES</b>				
72	General Officers and Clerks . . . . .	\$ 22,594 31	\$ 12,992 02	\$ 9,602 29
73	Law . . . . .	7,124 23	7,047 00	77 23
74	Stationery and Printing . . . . .	8,313 03	809 00	7,504 03
75	Taxes . . . . .	7,718 10	4,078 00	3,640 10
76	Interest during Construction . . . . .	192,415 83	191,090 44	1,325 39
77	Other Expenditures — General . . . . .	3,879 77	2,720 00	1,159 77
	<b>Total General Expenditures . . . . .</b>	<b>\$ 242,045 27</b>	<b>\$ 218,736 46</b>	<b>\$ 23,308 81</b>
	<b>Totals (See Note) . . . . .</b>	<b>\$11,413,973 83</b>	<b>* \$7,017,149 07</b>	<b>\$4,396,824 76</b>

\* DISPOSITION OF CREDITS

Account No.		
701	— Road and Equipment Property — Equipment Converted . . . . .	\$ 126,085 52
702½	— Accrued Depreciation — Road and Equipment — Owned Road . . . . .	3,851,755 31
708	— Cash — (Land, Buildings, Equipment, Rail and Track Fastenings Sold) . . . . .	674,893 24
716	— Material and Supplies — (Usable Material) . . . . .	161,036 54
726	— Property Retired Chargeable to Operating Expenses . . . . .	942,789 23
779	— Accrued Depreciation — Leased Property . . . . .	239,195 60
531	— Operating Expenses . . . . .	904,359 43
621	— Profit and Loss — Miscellaneous Debits . . . . .	117,034 20
	<b>Total Amount credited to Investment in Road and Equipment . . . . .</b>	<b>\$7,017,149 07</b>

NOTE. — "Gross Expenditures" includes Journal Entries, amount \$4,670,136.72, to conform with Interstate Commerce Commission accounting requirements in connection with the acquisition of the Vermont Valley Railroad, \$2,532,569.80, and The Sullivan County Railroad, \$2,137,566.92.

Operating Statistics

	Year Ended Dec. 31, 1949	Increase or Decrease
<b>AVERAGE MILES OF ROAD OPERATED</b>		
Freight Service . . . . .	1,723.07	22.61
Passenger Service . . . . .	1,405.00	.08
<i>Total . . . . .</i>	<i>1,734.42</i>	<i>22.61</i>
<b>TRAIN MILEAGE</b>		
Freight service (with locomotives) . . . . .	3,256,776	512,158
Passenger service (with locomotives) . . . . .	6,350,077	322,511
Passenger service (without locomotives) . . . . .	268,048	7,549
Work service . . . . .	116,321	47,076
<i>Total train miles . . . . .</i>	<i>9,991,222</i>	<i>889,294</i>
<b>* LOCOMOTIVE MILEAGE</b>		
Freight service . . . . .	3,513,594	584,121
Passenger service . . . . .	6,565,067	343,165
Train switching . . . . .	273,294	22,836
Yard switching . . . . .	2,214,468	356,070
Work service . . . . .	188,949	60,854
<i>Total locomotive miles . . . . .</i>	<i>12,755,372</i>	<i>1,367,046</i>
<b>CAR MILEAGE</b>		
<b>Freight-Train Car Miles:</b>		
Loaded . . . . .	121,685,990	16,843,293
Empty . . . . .	57,883,780	1,996,392
Caboose . . . . .	3,370,891	482,951
<i>Total freight-train car miles . . . . .</i>	<i>182,940,661</i>	<i>19,322,636</i>
<b>Passenger-Train Car Miles:</b>		
Passenger coaches . . . . .	18,563,847	1,578,598
Sleeping and parlor cars . . . . .	3,207,374	266,365
Club, lounge, dining and observation cars . . . . .	208,012	74,876
Business cars . . . . .	10,085	1,659
Mail, express, and baggage cars, and combination cars other than passenger . . . . .	15,514,956	396,619
Combination passenger cars (mail, express, or baggage with passenger) . . . . .	4,351,172	143,970
<i>Total passenger-train car miles . . . . .</i>	<i>41,855,446</i>	<i>2,458,769</i>
<i>Total transportation service car miles . . . . .</i>	<i>224,796,107</i>	<i>21,781,405</i>
<b>AVERAGES</b>		
Operating revenues per mile of road . . . . .	\$47,415.84	\$6,177.97
Operating expenses per mile of road . . . . .	38,682.43	3,287.46
Net railway operating income per mile of road . . . . .	2,873.33	1,833.91
Operating revenues per train mile . . . . .	\$ 8.33	\$ .46
Operating expenses per train mile . . . . .	6.79	.09
Net railway operating income per train mile . . . . .	.50	.27
Total freight cars per revenue train mile . . . . .	55.14	2.50
Loaded freight cars per revenue train mile . . . . .	37.37	.61
Empty freight cars per revenue train mile . . . . .	17.77	1.88
Total passenger cars per train mile . . . . .	6.32	.06

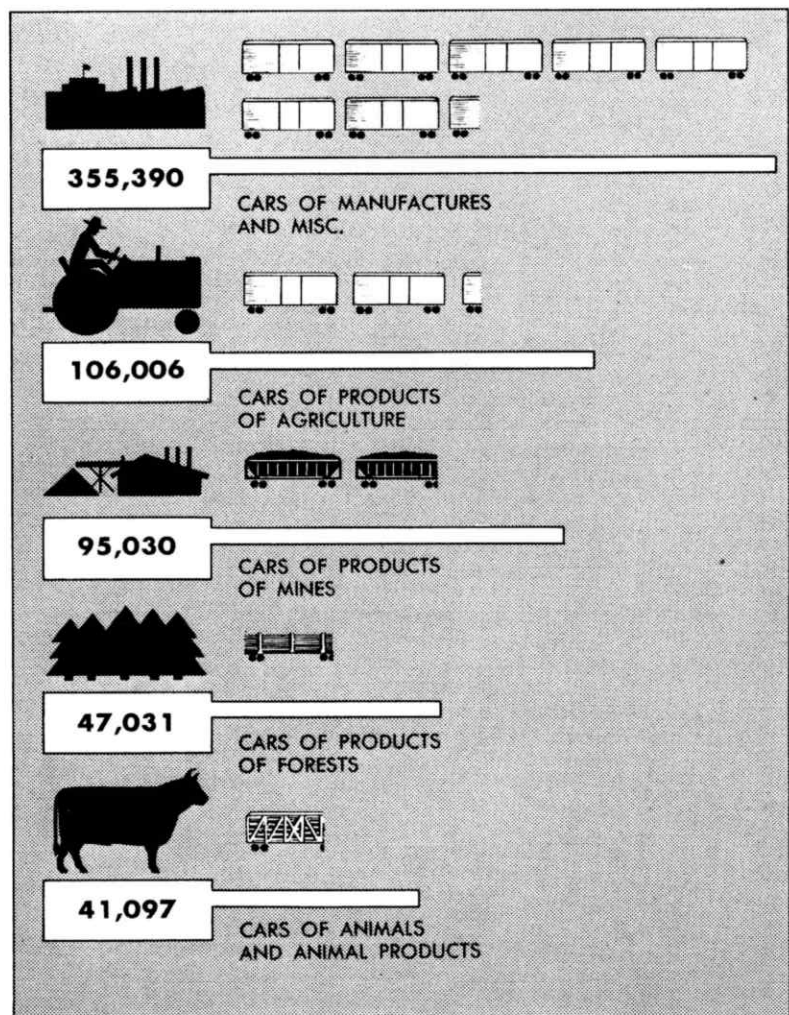
\* Includes 7,919,934 Diesel Locomotive Miles.  
Italics indicate decrease.

Traffic Statistics

	Year Ended Dec. 31, 1949	Increase or Decrease
<b>FREIGHT</b>		
Freight Revenue . . . . .	\$ 61,721,866	\$ 9,115,010
Tons of revenue freight carried . . . . .	18,701,832	4,343,658
Tons of company freight carried . . . . .	1,172,141	284,915
<i>Total tons of freight carried . . . . .</i>	<i>19,873,973</i>	<i>4,628,573</i>
Tons of revenue freight carried one mile . . . . .	3,037,496,906	619,875,763
Tons of company freight carried one mile . . . . .	89,539,502	28,500,678
<i>Total tons of freight carried one mile . . . . .</i>	<i>3,127,036,408</i>	<i>648,376,441</i>
<b>PASSENGER</b>		
<b>Passenger Revenue:</b>		
Monthly commutation ticket passengers . . . . .	\$ 1,228,053.07	\$ 26,172.66
All other commutation ticket passengers . . . . .	1,703,290.12	43,823.82
Single fare ticket passengers (not including interline) . . . . .	6,152,117.17	1,203,017.46
Interline ticket passengers . . . . .	3,949,572.47	557,625.51
<i>Total passenger revenue . . . . .</i>	<i>\$13,033,032.83</i>	<i>\$1,830,639.45</i>
<b>Number of Passengers Carried:</b>		
Monthly commutation ticket passengers . . . . .	4,286,573	128,236
All other commutation ticket passengers . . . . .	7,851,644	295,589
Single fare ticket passengers (not including interline) . . . . .	7,447,233	1,971,240
Interline ticket passengers . . . . .	1,328,279	365,272
<i>Total number of passengers carried . . . . .</i>	<i>20,913,729</i>	<i>2,760,337</i>
<b>Number of Passengers carried one mile:</b>		
Monthly commutation ticket passengers . . . . .	103,635,661	2,176,486
All other commutation ticket passengers . . . . .	79,848,294	2,235,024
Single fare ticket passengers (not including interline) . . . . .	218,255,980	64,946,649
Interline ticket passengers . . . . .	127,346,759	30,927,910
<i>Total number of passengers carried one mile . . . . .</i>	<i>529,086,694</i>	<i>100,286,069</i>
Number of passengers to and from Boston, including monthly ticket passengers . . . . .	20,051,429	1,964,862
<b>AVERAGES</b>		
<b>Freight:</b>		
Miles hauled — revenue freight . . . . .	162.42	3.72
Tons of revenue freight per train mile . . . . .	932.67	37.73
Tons of revenue freight per loaded car mile . . . . .	24.96	1.44
Revenue per ton of freight . . . . .	\$ 3.30031	\$ 22653
Revenue per ton per mile . . . . . (cents)	2.032	.095
Revenue per revenue train mile . . . . .	\$ 18.952	\$ .157
Freight revenue per loaded car mile . . . . . (cents)	50.722	.413
<b>Passenger:</b>		
Average distance carried per passenger (miles) . . . . .	25.30	1.28
Number of passengers per train mile . . . . .	79.95	10.63
Number of passengers per car mile . . . . .	20.25	2.14
Revenue per passenger . . . . . (cents)	62.32	.46
Revenue per passenger mile, monthly commutation ticket passengers . . . . . (cents)	1.185	—
Revenue per passenger mile, other commutation ticket passengers . . . . . (cents)	2.133	.005
Revenue per passenger mile, single fare not including interline . . . . . (cents)	2.819	.222
Revenue per passenger mile, interline passengers (cents)	3.101	.253
Revenue per passenger mile, all passengers . . . . . (cents)	2.463	.101
Passenger revenue per passenger car mile . . . . . (cents)	49.892	2.982
Total passenger service train revenue per train mile . . . . .	\$ 1.197	\$ 1.659

Italics indicate decrease.

### CARLOADS HAULED IN 1949



**TOTAL 644,554**

### 10 YEARS PROGRESS IN OPERATING EFFICIENCY FREIGHT SERVICE

	1949	1940	% Change
Ave. Gross Tons per Train . . . . .	2,344	1,973	18.8
Ave. Miles per Train Hour . . . . .	15.8	14.2	11.3
Gross Ton Miles per Train Hour (A) . . . . .	37,064	27,996	32.4
Ave. Net Tons per Train Mile . . . . .	962	736	30.7
Tons per Loaded Car . . . . .	25.7	21.5	19.5
Net Ton Miles per Car per Day . . . . .	790	560	41.1
Miles per Car per Day . . . . .	45.4	38.7	17.3
Miles per Locomotive per Day . . . . .	87.9	70.3	25.0
Ratio of Locomotive Miles to Train Miles . . . . .	1.079	1.213	d11.0
Per Cent Freight Cars Unserviceable . . . . (B) . . . . .	3.2	4.8	d33.3
Per Cent Freight Locomotives Unserviceable . . . . (B) . . . . .	12.7	26.9	d52.8

In 1940 all gross ton miles were handled by steam power, but in 1949 7.8% were handled by steam and 92.2% by Diesel Power.

If the gross ton miles produced by Diesels in 1949 had been produced by steam locomotives at the 1940 unit of coal consumption per 1000 Gross Ton Miles and at present-day coal prices, the fuel cost would have been about \$2,100,000 more than actually paid for Diesel oil in 1949.

(A) Train hour production is the average train load times the average train speed.

(B) Undergoing or awaiting repairs or possible retirement.

